Amendments to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (withdrawn) A distal protection assembly, comprising:

an outer sheath having a proximal end, a distal end, and a lumen extending therethrough;

an inner shaft disposed within the lumen, the inner shaft having a proximal end and a distal end;

a distal protection device disposed at the distal end of the inner shaft;

a manifold coupled to the proximal end of the inner shaft, the manifold including an actuator assembly; and

the actuator assembly coupled to the proximal end of the outer sheath and capable of moving the outer sheath relative to the inner shaft, wherein the actuator assembly includes a button; and wherein the button is longitudinally movable along a line that is parallel to the longitudinal axis of the sheath.

- 2. (withdrawn) The distal protection assembly in accordance with claim 1, wherein the distal protection device comprises a filter.
- 3. (withdrawn) The distal protection assembly in accordance with claim 1, wherein the distal protection device comprises a mesh.

- 4. (withdrawn) The distal protection assembly in accordance with claim 1, wherein the distal protection device comprises a strut.
- 5. (withdrawn) The distal protection assembly in accordance with claim 1, wherein the distal protection device comprises a rib.
- 6. (withdrawn) The distal protection assembly in accordance with claim 1, wherein the actuator assembly includes a second button.
 - 7. (cancelled)
- 8. (withdrawn) A distal protection assembly, comprising:
 an outer sheath having a proximal end, a distal end, and a lumen extending therethrough;

an inner shaft disposed within the lumen, the inner shaft having a proximal end and a distal end;

a distal protection device disposed at the distal end of the inner shaft;

a manifold coupled to the proximal end of the inner shaft, the manifold including an actuator assembly;

the actuator assembly coupled to the proximal end of the outer sheath and capable of moving the outer sheath relative to the inner shaft; wherein the actuator assembly includes a button and a gear; and

further comprising an actuator retention cover.

9-16. (cancelled)

17. (previously presented) A distal protection assembly, comprising:
an outer sheath having a proximal end, a distal end, and a lumen extending therethrough;

an inner shaft disposed within the lumen, the inner shaft having a proximal end and a distal end;

a distal protection device disposed at the distal end of the inner shaft;

a manifold coupled to the proximal end of the inner shaft, the manifold including an actuator assembly:

the actuator assembly coupled to the proximal end of the outer sheath and capable of moving the outer sheath relative to the inner shaft; wherein the actuator assembly includes a button and a gear;

wherein the button is coupled to the gear; and wherein the button is axially rotatable.

- 18. (original) The distal protection assembly in accordance with claim 17, wherein axial rotation of the button results in movement of the outer sheath relative to the inner shaft.
 - 19. (cancelled)

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20. (withdrawn) A distal protection assembly, comprising:

an outer sheath having a proximal end, a distal end, and a lumen extending therethrough;

an inner shaft disposed within the lumen, the inner shaft having a proximal end and a distal end;

a distal protection device disposed at the distal end of the inner shaft;

a manifold coupled to the proximal end of the inner shaft, the manifold including an actuator assembly;

the actuator assembly coupled to the proximal end of the outer sheath and capable of moving the outer sheath relative to the inner shaft; wherein the actuator assembly includes a button and a gear;

wherein the actuation assembly further comprises a second gear and a second button; and

wherein pressing the second button moves the outer tube in a direction that is opposite to pressing the first button.

21. (previously presented) A distal protection assembly, comprising: an outer sheath having a proximal end, a distal end, a lumen extending therethrough, and a proximal tubular member tube coupled to the proximal end; the proximal tubular member including teeth;

an inner shaft disposed within the lumen, the inner shaft having a proximal end and a distal end;

a distal protection device disposed at the distal end of the inner shaft;

a manifold coupled to the proximal end of the inner shaft, the manifold including an actuator assembly;

the actuator assembly having a gear that is engagable with the teeth;

wherein the actuator assembly is coupled to the proximal tubular member and capable of moving the outer sheath relative to the inner shaft;

wherein the actuator assembly further comprises a button coupled to the gear; and wherein the button is rotatable.

- 22. (original) The distal protection assembly in accordance with claim 21, wherein the distal protection device comprises a filter.
- 23. (original) The distal protection assembly in accordance with claim 21, wherein the distal protection device comprises a mesh.
- 24. (original) The distal protection assembly in accordance with claim 21, wherein the distal protection device comprises a strut.
- 25. (original) The distal protection assembly in accordance with claim 21, wherein the distal protection device comprises a rib.
- 26. (original) The distal protection assembly in accordance with claim 21, wherein the actuation assembly includes a thumbwheel coupled to the gear.

- 30. (withdrawn) The distal protection assembly in accordance with claim 21, wherein the button is axially rotatable.
- 31. (withdrawn) The distal protection assembly in accordance with claim 30, wherein axial rotation of the button results in movement of the outer sheath relative to the inner shaft.
 - 32. (cancelled)
- 33. (withdrawn) A distal protection assembly, comprising:

 an outer sheath having a proximal end, a distal end, a lumen extending
 therethrough, and a proximal tubular member tube coupled to the proximal end;
 the proximal tubular member including teeth;

an inner shaft disposed within the lumen, the inner shaft having a proximal end and a distal end;

a distal protection device disposed at the distal end of the inner shaft;

a manifold coupled to the proximal end of the inner shaft, the manifold including
an actuator assembly;

the actuator assembly having a gear that is engagable with the teeth;
wherein the actuator assembly is coupled to the proximal tubular member and
capable of moving the outer sheath relative to the inner shaft;

wherein the actuator assembly further comprises a button coupled to the gear;
wherein the actuation assembly further comprises a second gear and a second
button; and

wherein pressing the second button moves the outer tube in a direction that is opposite to pressing the button.

34. (withdrawn) A method of actuating a distal protection assembly, comprising the steps of:

providing a distal protection assembly including an outer sheath having a proximal end, a distal end, and a lumen extending therethrough; an inner shaft disposed within the lumen, the inner shaft having a proximal end and a distal end; a distal protection device disposed at the distal end of the inner shaft; a manifold coupled to the proximal end of the inner shaft, a proximal tubular member including teeth, the proximal tubular member disposed within at least a portion of the manifold and coupled to the proximal end of the outer sheath; the manifold including an actuator assembly; and the actuator assembly coupled to the proximal tubular member and capable of moving the outer sheath relative to the inner shaft;

actuating the actuator assembly;

wherein actuating the actuator assembly shifts the distal protection device between a delivery position and a retrieval position;

wherein the actuator assembly includes a gear;

wherein the gear is engageable with the proximal tubular member;

wherein the actuator assembly further comprises a button coupled to the gear and wherein the step of actuating the actuator assembly includes pressing the button;

wherein the actuator assembly further comprises a second gear and a second button coupled to the proximal tubular member and wherein the step of actuating the actuator further comprises pressing the second button; and

wherein pressing the second button moves the outer tube in a direction that is opposite to pressing the button.

- 35. (withdrawn) The method in accordance with claim 34, wherein the step of actuating the actuator assembly further comprises collapsing the distal protection device.
- 36. (withdrawn) The method in accordance with claim 34, wherein the step of actuating the actuator assembly further comprises expanding the distal protection device.

37-38. (cancelled)

39. (withdrawn) A method of actuating a distal protection assembly, comprising the steps of:

providing a distal protection assembly including an outer sheath having a proximal end, a distal end, and a lumen extending therethrough; an inner shaft disposed within the lumen, the inner shaft having a proximal end and a distal end; a distal protection device disposed at the distal end of the inner shaft; a manifold coupled to the proximal end of the inner shaft, a proximal tubular member including teeth, the proximal

tubular member disposed within at least a portion of the manifold and coupled to the proximal end of the outer sheath; the manifold including an actuator assembly; and the actuator assembly coupled to the proximal tubular member and capable of moving the outer sheath relative to the inner shaft;

actuating the actuator assembly;

wherein actuating the actuator assembly shifts the distal protection device between a delivery position and a retrieval position; and

wherein the step of actuating the actuator assembly further comprises rotating a thumbwheel coupled to the gear.

40-44. (cancelled)

45. (previously presented) A method of actuating a distal protection assembly, comprising the steps of:

providing a distal protection assembly including an outer sheath having a proximal end, a distal end, and a lumen extending therethrough; an inner shaft disposed within the lumen, the inner shaft having a proximal end and a distal end; a distal protection device disposed at the distal end of the inner shaft; a manifold coupled to the proximal end of the inner shaft, a proximal tubular member including teeth, the proximal tubular member disposed within at least a portion of the manifold and coupled to the proximal end of the outer sheath; the manifold including an actuator assembly; and the actuator assembly coupled to the proximal tubular member and capable of moving the outer sheath relative to the inner shaft;

actuating the actuator assembly;

wherein actuating the actuator assembly shifts the distal protection device between a delivery position and a retrieval position; and

wherein the step of actuating the actuator assembly includes axially rotating a button and wherein rotating the button results in movement of the outer sheath relative to the inner shaft.